

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Application

Inventors:

Girgensohn, et al.

Appl. No.: Confirm. No.:

10/612,428

Filed:

6562

Title:

July 2, 2003

SYSTEMS AND METHODS FOR

GENERATING MULTI-LEVEL

HYPERVIDEO SUMMARIES

PATENT APPLICATION

Art Unit:

2615

Examiner:

Unknown

Customer No. 23910

(Attorney Signature)

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited in the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 20,

<u>200</u>4.

Larry T. Harris, Reg. No. 44,745 Signature Date: January 29, 2004

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56. If this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. MPEP §609. Such information therefore is not listed herein unless it is desired that the information be printed on a patent issuing from the subject application.

Enclosed with this statement are the following:

Form PTO-1449. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. §609.

The present application was filed after June 30, 2003. In accordance with the pre-official gazette waiver of 37 CFR 1.98(a)(2)(i) posted at: pac/dapp/opla/preognotice/idswouscopies.htm, copies of cited U.S. patents and publications are not enclosed. However, copies of cited foreign patent documents and non-patent literature are enclosed in accordance with 37 CFR 1.98(a)(2), as still required, except for those items designated by an asterisk (*), which were previously submitted by the applicant in a parent application, from which benefit under 35 U.S.C. §120 is claimed, with an Information Disclosure Statement submitted in the parent application which complies with the September 8, 2000 or subsequent revision of 37 C.F.R. §1.98(a-c), as allowed under 37 C.F.R. §1.98(d)(1).

Attorney Docket No.: FX/A2022 lharris/fxpl/1065/1065us0.ids.wpd - 1 -

FXPL-01065US0

- If any of the cited/submitted documents is in a foreign language, a concise explanation of ___ relevance is provided pursuant to 37 C.F.R. §1.98(a)(3)(i). For foreign language documents cited in a search report by a foreign patent office, the requirement for a concise explanation of relevance is satisfied by the submission herewith of an English language version of the search report. MPEP §609A(3). If a written English-language translation of a non-English language document, or portion thereof, is within the possession, custody or control of, or is readily available to any individual designated in §1.56(c), a copy of the translation accompanies this statement, 37 C.F.R. §1.98(a)(3)(ii), and satisfies the requirement for a concise explanation of relevance, MPEP §609A(3). PTA Statement under 37 C.F.R. §1.704(d). Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the *Information Disclosure Statement*. This statement should be considered because: 37 C.F.R. §1.97(b). This statement qualifies under 37 C.F.R. §1.97, subsection (b) because: (1) It is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d); -- OR --(2) It is being filed within 3 months of entry of a national stage; -- OR --It is being filed before the mailing date of the first Office Action on the merits, (3) -- OR --
 - ___ 37 C.F.R. §1.97(c). Although it may not qualify under subsection (b), this statement qualifies under 37 C.F.R. §1.97, subsection (c) because:

of a Request for Continued Examination under 37 C.F.R. §1.114.

- (1) It is being filed before the mailing date of a FINAL Office Action, a Notice of Allowance, or an action that otherwise closes prosecution in the subject application, whichever occurs first.
 - -- AND (check at least one of the following) --

It is being filed before the mailing date of the first Office Action after the filing

- (1) It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e).
- (2) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).
- ___ 37 C.F.R. §1.97(d). Although it may not qualify under subsection (b) or (c), this statement qualifies under 37 C.F.R. §1.97, subsection (d) because:
 - (1) It is being filed on or before payment of the Issue Fee;
 - -- AND --
 - (2) It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e); -- AND --
 - (3) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).

(4)

Fee Authorization. The Commissioner is hereby authorized to charge any deficiencies or credit any overpayment to Deposit Account No. 06-1325. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

By:

Larry T. Harris
Reg. No. 44,746

FLIESLER MEYER LLP Four Embarcadero Center, Fourth Floor San Francisco, California 94111-4156 Telephone (415) 362-3800

| Sheet | 1 | of | 2 | |
|-------|---|----|---|--|

JAN 2 6 2004

Form PTO-144 (Substitute)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

Attorney Docket Number Serial/Patent Number FX/A2022 10/612,428

Andreas Girgensohn

| Information Disclosure Statement BY APPLICANT (Use several sheets if necessary) | | | 1 | nsohn, e | | | | | | | |
|---|----|---------------------------------------|--------------------------------|--------------|--------------------------------|------------------------|--------------------|-------|-------------------------------------|---|---------------|
| | | | Filing/Issue Date July 2, 2003 | | | Group Art Unit 2615 | | | | | |
| | | | | U.S | S. PATENTS | S . | | | | _ | |
| Examiner Initial | | Patent Number | Issue Date | | Fii | rst Named Inventor | | Class | Subclass | | iling Date |
| | | | | | | | | | | | |
| | | | U.S. I | PATE | NT PUBLIC | ATION | S | | | | |
| Examiner Initial | | Patent Application Publication Number | | | Publication | n Date | Applicant | | | | |
| | 1. | US 2003/0189588 A1 | | October 9, 2 | ber 9, 2003 Andreas Girgensohn | | | | | | |
| | 2. | US 2003/0190143 A1 | | | October 9, 2 | 2003 | Andreas Girgensohn | | | · | |
| | | PEN | NDING | U.S. I | PATENT AI | PLICA | ΓΙΟΝS | , | | | |
| Examiner Initial | | Application Number F | | ling Date | | First Named Inventor | | | Petition to Expunge? Yes No | | |
| | 3. | 09/618,649 | July | | 18, 2000 | Andrea | dreas Girgensohn | | | | х |
| | | | | | | | | | | | |

July 18, 2000

| | |] | FOREIGN PAT | TENT DOCUMENTS | | | | | |
|---------------------|-------|--|-----------------------|--|------------|----------------|------------------------------|--|--|
| Examiner Initial | | Document Number | Publication Date | Country | Class | Subclass | Trans- lation Yes No | | |
| | | | | | | | | | |
| C | OTHER | DOCUMENTS (Include | e author (if any), ti | tle, publisher and place of publication, | date and p | ertinent pages | s) | | |
| 5 | | Avrahami, G., Brooks, K.P., and Brown, M.H., "A Two-View Approach to Constructing User Interfaces," ACM SIGGRAPH '89, Boston, 31 July – 4 August, 1989. | | | | | | | |
| 6 | | Boreczky, J. and Wilcox, L., "A Hidden Markov Model Framework for Video Segmentation Using Audio and Image Features," in <i>Proc ICASSP '98</i> , IEEE, May 1998, Seattle. | | | | | | | |
| 7 | | Boreczky, J. and Rowe, L., "Comparison of Video Shot Boundary Detection Techniques," <i>Proc. SPIE Storage and Retrieval for Image and Video Databases IV</i> , San Jose, CA, 1996. | | | | | | | |
| 8 | A | Christel, M., Smith, M., Taylor, C., and Winkler, D., "Evolving Video Skims into Useful Multimedia Abstractions," in <i>Human Factors in Computing Systems, ACM CHI '98 Conference Proceedings</i> , pp. 171-178, Los Angeles, April 1998. | | | | | | | |
| 9 | | Girgensohn, A. and Boreczky, J. "Time-Constrained Keyframe Selection Technique," in <i>IEEE Multimedia Systems</i> '99, <i>IEEE Computer Society</i> , Vol. 1, pp. 756-761, 1999. | | | | | | | |
| 1 | | He, L., Sanocki, E., Gupta, A., and Grudin, J., "Auto-Summarization of Audio-Video Presentations," ACM Multimedia, April 1999. | | | | | | | |
| 1 | 11. K | Knuth, D., The T _F Xbook, Addison-Wesley, 1984. | | | | | | | |

09/618,533

JAN 2 6 2004 19

| OTI | IER DOCUMENTS (Include author (if any), title, publisher and place of publication, date and pertinent pages) | | | | | |
|--|--|--|--|--|--|--|
| 12. | Pfeiffer, S., Lienhart, R., Fischer, S. and Effelsberg, W., "Abstracting Digital Movies Automatically," in <i>Journal of Visual Communication and Image Representation</i> , Vol. 7, No. 4, pp. 345-353, December 1996. | | | | | |
| 13. | Smith, M. and Kanade, T., "Video Skimming and Characterization through the Combination of Image and Language Understanding Techniques," in <i>Proc. Computer Vision and Pattern Recognition</i> , pp. 775-781, 1997. | | | | | |
| 14. | Uchihashi, S. and Foote, J., "Summarizing Video Using a Shot Importance Measure and a Frame-Packing Algorithm," in <i>Proc. ICASSP '99</i> , Vol. 6, pp. 3041-3044, 1999. | | | | | |
| 15. | Webster, B.F. The NeXT Book, Addison-Wesley, 1989. | | | | | |
| 17. | Gross, G., "Molecular Mechanics Optimisation," http://www.chem.swin.edu.au/modules/mod6/molmech_1.html , October 9, 2000. | | | | | |
| 18. | Cooper, M. and Foote, J., "Summarizing Video using Non-Negative Similarity Matrix Factorization," 2002 IEEE. | | | | | |
| 19. | Girgensohn, A., Boreczky, J., Chiu, P., Doherty, J., Foote, J., Golovchinsky, G., Uchihashi, S., and Wilcox, L., "A Semi-Automatic Approach to Home Video Editing," <i>Proceedings of UIST '00</i> , pp. 81-89, 2000. | | | | | |
| 20. | Lienhart, R., "Dynamic Video Summarization of Home Video," SPIE 3972: Storage and Retrieval for Media Databases 2000, pp. 378-389, 2000. | | | | | |
| 21. | Marchionini, G. and Geisler, G., "The Open Video Digital Library," <i>D-Lib Magazine</i> , Vol. 8, No. 12 http://www.dlib.org/dlib/december02/marchionini/12marchionini.html , December 2002. | | | | | |
| 22. | Smith, J.M., Stotts, D. and Kum, SU., "An Orthogonal Taxonomy For Hyperlink Anchor Generation in Video Streams Using OvalTine," <i>Proc. Of ACM Hypertext</i> 2000, pp. 11-18, 2000. | | | | | |
| 23. | Sundaram, H. and Chang, SF., "Condensing Computable Scenes Using Visual Complexity and Film Syntax Analysis," <i>Proceedings of ICME 2001</i> , pp. 389-392, 2001. | | | | | |
| 24. | Uchihashi, S., Foote, J., Girgensohn, A. and Boreczky, J., "Video Manga: Generating Semantically Meaningful Video Summaries," <i>Proceedings of ACM Multimedia</i> '99, pp. 383-392. | | | | | |
| 25. | Boissière, G., "Automatic creation of hypervideo news libraries for the World Wide Web," <i>Hypertext '98 Proceedings, ACM</i> , Pittsburgh, PA, 1998. | | | | | |
| 26. | Yeung, M.M., and Yeo, BL., "Video Visualization for Compact Presentation and Fast Browsing of Pictorial Content," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , Vol. 7, No. 5, October 1997. | | | | | |
| 27. | Zhang, H.J., et al., "Automatic Parsing and Indexing of News Video," Multimedia Systems, 2 (6), pp. 256-266, 1995. | | | | | |
| 28. | Russell, D., "A Design Pattern-based Video Summarization Technique: Moving from Low-level Signals to High-level Structure," <i>IEEE 33rd Hawaii International Conference on System Sciences</i> , Vol. 3, Maui, Hawaii, January 04 - 07, 2000. | | | | | |
| 29. | Wildemuth, B., et al., "How Fast Is Too Fast? Evaluating Fast Forward Surrogates for Digital Video," <i>JCDL</i> '03 May 1-2, 2003, Houston Texas. | | | | | |
| Examiner | Date Considered | | | | | |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | |
| | ubmitted because it was submitted in prior application SN _/, filed, 20, relied on under 35 USC §120. ubmitted because it was submitted in prior application SN _/, filed, 20, relied on under 35 USC §120. | | | | | |